[October

on the 24th, none, and on the 25th, 23 eggs were deposited. The insect died on the 26th, after a normal life of ten days, retaining 93 ova. Thus the total number of eggs carried by this female was 518.<sup>1</sup> It is of interest to note that only the eggs which were deposited on the first day were fertile; although the insect remained in coitu the usual length of time, all the eggs deposited subsequently proved infertile.

It is much to be regretted that breeding experiments on the inheritance of fluffy cocoon making could not be carried to completion. This extremely interesting problem should be taken up by some one having proper breeding facilities.

July 29, 1911.

## NOTES ON COLEOPTERA FROM CONNECTICUT.

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## CARABIDÆ

In a previous article, entitled "Some Carabidæ Taken in Connecticut,"<sup>2</sup> the author gave notes on a number of species of this family. These additional notes are supplementary, and are the result of further collecting in the state.

Cychrus lecontei Dej. Found this species at night under an arc light, New Haven, May 7; about a week later Mr. B. H. Walden found it at another light.

Cychrus elevatus Fabr. Observed fragments of this species in the remains of an owl pellet. Several years ago in Pennsylvania, I dissected *C. stenostomus* Web, from the stomach of a toad.

Carabus serratus Say. New Haven, May 21, under an arc light. Previous to this year, I had never observed Cychrus or Carabus at ares.

Carabus memoralis Mull. This introduced species occurs rather abundantly in one section of New Haven. Mr. J. K. Lewis, while on his way to the Station every morning, from April 25 to May 10, found specimens crushed upon the sidewalk in the vicinity of a

<sup>&</sup>lt;sup>1</sup>Records kept on the oviposition of sixty-four ordinary eccropias (Trans. Acad. Sci., St. Louis, Vol. XX, p. 316, 1911) showed that the number produced varied from 200 to 480, with an average of 344. <sup>2</sup>Psyche, vol. 18, p. 35 (1911).

light. On May 10, Doetor Britton collected a perfect specimen running upon the sidewalk during the daytime, and that night, Mr. Walden and myself found it at the light. Mr. H. B. Kirk eaptured a specimen in the same locality, July 7. Our records show that it occurs as an adult from April 2 until November 3.

Calosoma externum Say. Wallingford, July 20, taken by Mr. D. J. Caffrey under bands placed for gypsy moth larvæ. C. willcoxi Lee. and C. frigidum Fabr. common, running over trees and feeding upon canker worms during the period when these larvæ were the most plentiful. C. frigidum and C. calidum Fabr. common at Wallingford under Gypsy Moth bands.

*Elaphrus fuliginosus* Say. Lyme, April 30. Two specimens found in swamp.

*Clivina rubicunda* Lee. Dr. W. E. Britton collected five examples of this rare species at Hamden, May 25, under stones along a stream in the swamp. I found one specimen at Lyme, April 30, in a similar situation.

Patrobus rugicollis Rand. Middlefield. Prof. W. R. Coe.

Pterostichus corrusculus Lee. Single specimens, New Haven, February 5, March 21, and Pomfret, April 10.

Pterostichus vitreus Dej. Ridgefield, March 29, under stones. Taken by J. K. Lewis.

Pterostichus scrutator Lee. is found at Lyme in a swamp about thirty feet in diameter. I have searched for it earefully through all the neighboring country, but without success. It occurs principally in the moss and grass clustered about the bases of skunk cabbage and small bushes, occasionally under stones. I have taken the adults in April, May, August and December.

Olisthopus parmatus Say. New Haven, April 8, one specimen. Tachyscellus badiipennis Hald., and kirbyi Horn, New Haven, not rare: T. nigrinus Dej., Pomfret, April 10, two specimens.

## MISCELLANEOUS.

Xenodusa cara Lec. Lyme, May 1, several under stones with ants. The trees on the station grounds are banded with tree tanglefoot about five or six feet above the ground, principally to catch the females of the fall canker worm; incidentally we find quite a variety of insects thereon. On August 3, I found X.

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*cava* in numbers caught in this sticky trap; the ants also fell victims. Placing the specimens in a solution of alcohol removes all traces of the tanglefoot.

Among some Staphylinidæ sent to Major Thomas L. Casey for identification, a few proved to be new species and were described in "Memoirs of the Coleoptera II, 1911," as follows:

Atheta vicrecki Casey. Double Beach—H. L. Viereck.

Atheta irvingi Casey. Occurs at Stafford-W. E. Britton.

Sableta brittoni Casey. Westville-W. E. Britton.

Datomicra (Hilarina) mina Casey. Double Beach—H. L. Viereck.

Hoplandria brittoni Casey. Westville—W. E. Britton. Strigota recta Casey. New Haven—H. L. Viereck.

Malachius aneus Linn. New Haven, June 2, on flowers.

Collops tricolor Say. Lyme, May 29, 1910. Occurred on lichencovered ledges by the hundreds. Their object in confining themselves to the rock, I could not determine. Vegetation was scarce, and the only trees that grew nearby were cedars. We also have recorded from Connecticut.—C. eximius Er. New Haven—B. H. Walden; C. vittatus Say, Stratford—August 17, H. L. Viereck; C. quadrimaculatus Fabr. occurs throughout the state.

The arc lights have great attraction for Scarabæidæ, Lachnosterna predominating, L. ilicis Knoch occasional and L. crenulata Froehl. very common. Many others, Copris, Trox, Ligyrus, Dyscinctus trachypygus Burm., Cotalpa lanigera Linn. are very common at times, and occasionally Aphonus castaneus Mels.

Diplotaxis atlantis Fall. occurs everywhere, at lights, under stones and on plants; we have records of two other species occurring here, *liberta* Germ. and *sordida* Say, but they are rare.

Polyphylla variolosa Hentz. One specimen from Wallingford, July 7, J. K. Lewis.

*Gnormius maculosus* Knoch. New Haven, June 19, 1910. I found this example flying about the flowers of a species of *Cornus* on the summit of West Rock.

Euphoria (Cetonia) aurata Linn. Doctor Britton found this European species among imported nursery stock. (See Ninth Rept. State Ent. Conn., p. 374, Plate XVI, 1910.)

A number of very interesting species of Longicorns were taken

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from under gypsy moth bands at Wallingford by Mr. Caffrey and his assistants; this idea might be employed very successfully as a means of collecting tree-infesting insects.

Oberea oculata Linn. This is a European species collected at New Haven, July 9, by Mr. Walden; one specimen being taken near the Experiment Station. It is recorded as living in willow.

*Pytho niger* Kirby and *planus* Oliv. Windsor, January 2, 1907. Taken from cells under bark of dead and dying white pine—A. F. Hawes.

*Rhipiphorus limbatus* Fabr. and *flavipennis* Lec. Common in flowers near the Station.

*Tricrania sanguinipennis* Say. Lyme, April 3, on plowed ground in which a species of bee had made numerous burrows.

Homorus undulatus Uhler. New Haven. Common Disfigures the leaves of lily-of-the-valley on the Station grounds. (See Fifth Rept. State Ent. Conn., p. 259, Plate VI.)

Otiorhynchus sulcatus Fabr. and O. ovatus Linn. Very common in Connecticut, and occur in numbers at arc lights

*Barypithes pellucidalis* Boh. New Haven, May. Common at arc lights.

Stephanocleonus plumbeus Lec. Prospect, August 15-W. E. Britton. New Haven, May 23, July 13-B. H. Walden. Unusual in this section.

*Phytonomus meles* Fabr. This imported species discovered by Dr. E. G. Titus is very common in the vicinity of New Haven. During May, I found that it greatly outnumbered *P. punctatus* Fabr. and *nigrirostris* Fabr. Taken also in Meriden, May 29, by W. E. Britton.

NOTES ON A SARCOPHAGID FOUND IN A TURTLE.

From rather a large number of native turtles collected in the vicinity of New Haven, Conn., for dissecting purposes at the Sheffield Scientific School of Yale University, one was found to be infested in the axilla with maggots of a Sarcophagid.

The maggots, although nearly full grown, were only noticeable after close observation as they were well concealed within a blackened, elevated, horny funnel about 1 cm. in diameter and nearly 1 cm. in depth. The extreme edge of the funnel was composed of

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